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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/854,622	05/15/2001	Makoto Fujieda	1095.1186	8012

21171 7590 03/08/2006

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EXAMINER

PITARO, RYAN F

ART UNIT	PAPER NUMBER
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2174

DATE MAILED: 03/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/854,622

Applicant(s)

FUJIEDA, MAKOTO

Examiner

Ryan F. Pitaro

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 15 December 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1 and 3-13 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1 and 3-13 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

## DETAILED ACTION

### *Response to Amendment*

1. This communication is responsive to the Amendment filed 12/16/2005.
2. Claims 1 and 3-13 are pending in this application. Claims 1 and 10-13 are independent.

### *Claim Rejections - 35 USC § 103*

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1 and 3-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kellstrom ("Kellstrom", US 6,088,625) in view of Harrison et al ("Harrison", US 6,611,725) in further view of Sartiono et al ("Sartiono", US 2001/0016803).

As per independent claim 1, Kellstrom teaches a computer readable recording medium storing a program for causing a computer to perform operations, comprising: displaying a unit based on assembly data and parts data in response to a display request, the parts data including data about shapes of parts and version information

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about versions of the parts, the assembly data defining a structure of the unit formed by one or more parts (Kellstrom, col. 6, lines 34-38; col. 10, lines 47-54). Kellstrom fails to particularly point out information about individual parts. However, Harrison teaches information about individual parts which create an assembly, such as the one taught in Kellstrom, (Column 5 lines 58-66). Therefore it would have been obvious to an artisan at the time of the invention to combine the individual part information of Harrison with the system of Kellstrom. Motivation to do so would have been to provide an interrelated data structure to keep detailed features of each of the components. The modified Kellstrom fails to distinctly point out version information for each individual part. However, Sartiono teaches assigning the version information about all parts that form the unit displayed to the assembly data ([0039] –[0040] and [0054] lines 1-7), where the version information is assigned to the assembly data when the assembly data and parts data of the unit displayed are stored in a storage unit ([0039] –[0040] and [0054] lines 1-7). Therefore it would have been obvious to an artisan at the time of the invention to combine the modified Kellstrom with the version information of Sartiono. Motivation to do so would have been to provide a design system and method, which enable new parts of a design to be designed or constructed in a timesaving and cost-effective manner.

Independent claims 11-13 are similar in scope to claim 1, and are therefore rejected under similar rationale.

As per claim 3, which is dependent on claim 1, Kellstrom-Harrison-Sartiono teaches the computer readable recording medium as claimed in claim 1, wherein, the

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parts data includes those of different versions of the individual parts (Sartiono, Figure 6, [0054] lines 1-7); and causing the unit to be displayed based on assembly data and parts data includes acquiring parts data of a version that is the same as that assigned to the assembly data in response to the display request and causes the unit based on the parts data thus acquired to be displayed (Sartiono, [0006] –[0011]).

As per claim 5, which is dependent on claim 1, Kellstrom-Harrison-Sartiono teaches the computer readable recording medium as claimed in claim 1, wherein part of the parts data is sub-assembly data that defines a sub-unit formed by one or more of the other individual parts (Kellstrom, col.9, lines 29-32).

As per claim 6, which is dependent on claim 5, Kellstrom-Harrison-Sartiono teaches the computer readable recording medium as claimed in claim 5, further comprising: causing the sub-unit defined in the sub-assembly data specified in the display request to be displayed (Kellstrom, col. 9, lines 41-59); and assigning version information about the individual parts that form the sub-unit displayed to the sub-assembly data specified in the display request (Kellstrom, col. 9, lines 41-59, Sartiono [0039] –[0040] and [0054] lines 1-7). In Kellstrom, the ability to update a specific part within a subassembly allows for the sub-unit to be assigned version information.

As per claim 7, which is dependent on claim 5, Kellstrom-Harrison-Sartiono teaches the computer readable recording medium as claimed in claim 5, further comprising updating, in response to an at-registration information updating request, the version information about the assembly data and the sub-assembly data having a lower

structure with respect to the assembly data to latest versions thereof (Sartiono, Figure 6, [0039] –[0040]).

As per claim 8, which is dependent on claim 1, Kellstrom-Harrison-Sartiono teaches a medium further comprising assigning initialized version information to a copy of the assembly data when the copy of the assembly data is made (Harrison, Column 6 lines 6-46).

As per claim 9, which is dependent on claim 1, Kellstrom-Harrison-Sartiono teaches a medium further comprising diverting, when the assembly data used to form a first product is diverted to a second product, the version information about the assembly data of the first product to diverted assembly data of the second product (Harrison, Column 6 lines 6-46).

As per independent claim 10, Kellstrom-Harrison-Sartiono teaches a CAD data management apparatus managing CAD data, comprising: data storage means for storing parts data including data about shapes of the individual parts and version information about versions of the parts, the assembly data defining a structure of a unit including one or more of the individual parts (Sartiono, Figure 6 and [0006] –[0011]); display control means for acquiring, in response to a display request, the assembly data and the parts data of the individual parts that form a unit from the data storage means and causing the unit defined in the assembly data to be displayed (Kellstrom, col. 6, lines 34-38; col. 10, lines 47-54); and version information assigning means for assigning the assembly data the version information about all of the individual parts that form the unit displayed by the display control means, (Sartiono, [0006] –[0011]), where the

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version information is assigned to the assembly data when the assembly data and parts data of the unit displayed are stored in a storage unit (Sartiono, [0039] –[0040] and [0054] lines 1-7).

5. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kellstrom ("Kellstrom", US 6,088,625) and Harrison et al ("Harrison", US 6,611,725) and Sartiono et al ("Sartiono", US 2001/0016803) in view of Beppu et al. ("Beppu", US 5,777,877).

As per claim 4, which is dependent on claim 3, Kellstrom-Harrison-Sartiono fails to teach the computer readable recording medium as claimed in claim 3, further comprising causing the parts of the unit to be emphatically displayed on the basis of parts data of a version different from a latest version when the display request is directed to states of parts at registration of the parts data. Beppu, however, teaches showing the correspondence between parts before and user a recomposition of assemblies. This correspondence includes listing a part as "NEW" or "OLD" based on the parts version number (Beppu, col. 7, lines 59-67 and col. 8, lines 1-5). It would have been obvious to one skilled in the art at the time of invention to include the latest version identification of Beppu in the CAD system of Kellstrom-Harrison-Sartiono because it would increase productivity by ensuring the user knows the version of each part in a given assembly.

### ***Response to Arguments***

Applicant's arguments with respect to claims 1,3-13 have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan F. Pitaro whose telephone number is 571-272-4071. The examiner can normally be reached on 7:00am - 4:30pm M-Th, and alternating F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kristine Kincaid can be reached on 571-272-4063. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ryan Pitaro



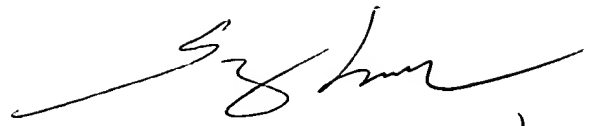
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Patent Examiner

RFP



SY D. LUU  
PRIMARY EXAMINER